Happy Tuesday! How was ur weekend?

1.) please take a warm up and complete. Yes glue it in.

2.) We are beginning a new unit. Please create a title page for it. The information you need is on the front board!

3) When you are done with all the above... take the notes from the front white stool and glue it in!!! do not do anything with it.
One-Step Equations with Addition and Subtraction

What are the equations on the left?

1. $x + 5 = 12$
   - Check: $x = 7$

2. $x - 5 = 9$
   - Check: $x = 14$

3. $x - 8 = -1$
   - Check: $x = 7$

What does it mean to "solve"?

$\frac{x - 8}{x + 8} = \text{ANSWER} -1 + 8$
Solving One-Step Equations with Addition and Subtraction:
Add or subtract the constant from both sides of the equation.

Solve:
\[ x + 8 = 22 \quad x = 14 \quad y + 12 = 35 \quad y = 47 \quad a - 6 = -16 \quad a = -22 \]
\[ 8 + x = 22 \quad 15 - b = 17 \quad c + (-9) = 46 \quad c = 55 \]

Make it a One-Step Equation!
Solve:
\[ x - (-7) = 26 \quad a - (-12) = 6 \]
\[ x + 7 = 26 \]

Model and solve the following equations:

\[ x + 7 = 10 \]
\[ y - 6 = 3 \]
\[ x + 7 = 10 \quad x = 3 \]
\[ y + 6 = 3 \quad y = 3 \]
Variable: a letter or symbol that represent an unknown #: ex: \(x, y, z, n, a, \theta, A\)

Coefficient: the # that is directly next to a variable

\[3x + 2 = 10\quad x = 3\]
\[1x + 2 = 10\]
Constant: a number that stays the same.  \( x + 3 = 10 \)

\( 2x + [3] = 12 \)

Term: a number \( 2x + 3 \neq 12 \)
Equation: A mathematical sentence that has an equal sign & answer.

\[ x + 3 = 5 \]
\[ 3x + 2 = 10 \]

The left side of the equal sign is equal to the right side of equal sign.

\[ \frac{3 + 2 + 5}{5} = 5 \]
Expression: A mathematical problem that does not have an equal sign. $x + 3$ $3 + 2$